

Atomic layer deposition apparatus for depositing atomic layer on multiple substrates

Atomic layer deposition apparatus for depositing atomic layer on multiple substrates

Patent Number: ☐ US6042652

Publication date: 2000-03-28

Inventor(s): CHOI KANG-JUN (KR); PARK KYUNG-HO (KR); HYUN KWANG-SOO (KR); JEONG SOO-HONG (KR); YOON NEUNG-GOO (KR)

Applicant(s): P K LTD (KR)

Requested Patent: ☐ JP2000319772

Application Number: US19990390710 19990907

Priority Number(s): KR19990015805 19990501

IPC Classification: C23C16/00

EC Classification: C23C16/44, C30B25/14

EC Classification: C23C16/44; C30B25/14

Equivalents:

Abstract

An atomic layer deposition (ALD) apparatus capable of depositing a thin film on a plurality of substrates. The atomic layer deposition apparatus includes: a vacuum chamber, a reactor installed in the vacuum chamber, having a plurality of modules which can be assembled and disassembled as desired, a plurality of stages as spaces partitioned by assembling the plurality of modules, and openings which allow each stage to receive one substrate; a gas supply portion installed in the reactor, for supplying reaction gases and a purging gas to the reactor; and a plurality of gas supply lines installed in the modules, for injecting the gases from the gas supply portion into the stages.